

IN THE CLAIMS

Please amend claim 17 to read as follows:

17. (Amended) A radar level transmitter for providing level detection of materials in a container, the transmitter comprising:

- an antenna;
- a transceiver coupled to the antenna and configured to transmit a microwave pulse having a transmit pulse amplitude using the antenna and produce a signal representing reflected wave pulses;
- a microprocessor system coupled to the transceiver and adapted to control the transceiver and process the signal;
- a threshold calculation module executable by the microprocessor system and adapted to calculate a first threshold value as a function of the transmit pulse amplitude and properties of the materials; and
- a level calculation module executable by the microprocessor system and adapted to establish a level of a first material interface using the signal and the first threshold value.